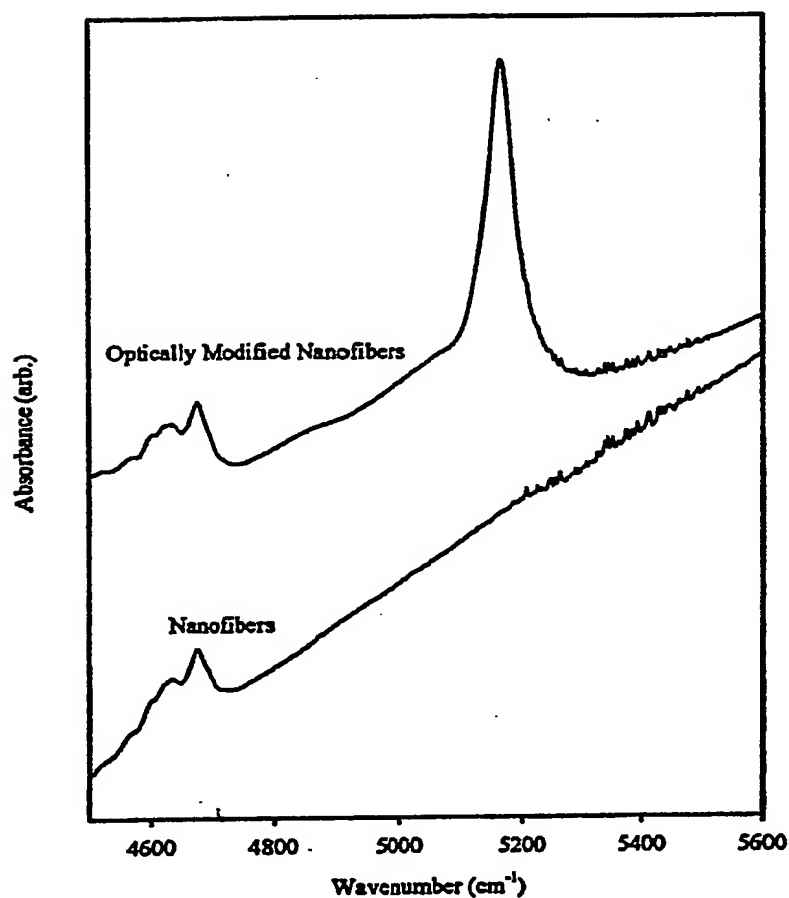


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**Figure 1:** Absorption spectra demonstrating significant narrow-band modification of the optical properties of nanofibers by erbium. These spectra are in the range 2.2 – 1.8  $\mu\text{m}$ .

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Absorption spectra of untreated, coated and doped PDPP fibers  
with Er (III) nitrate.

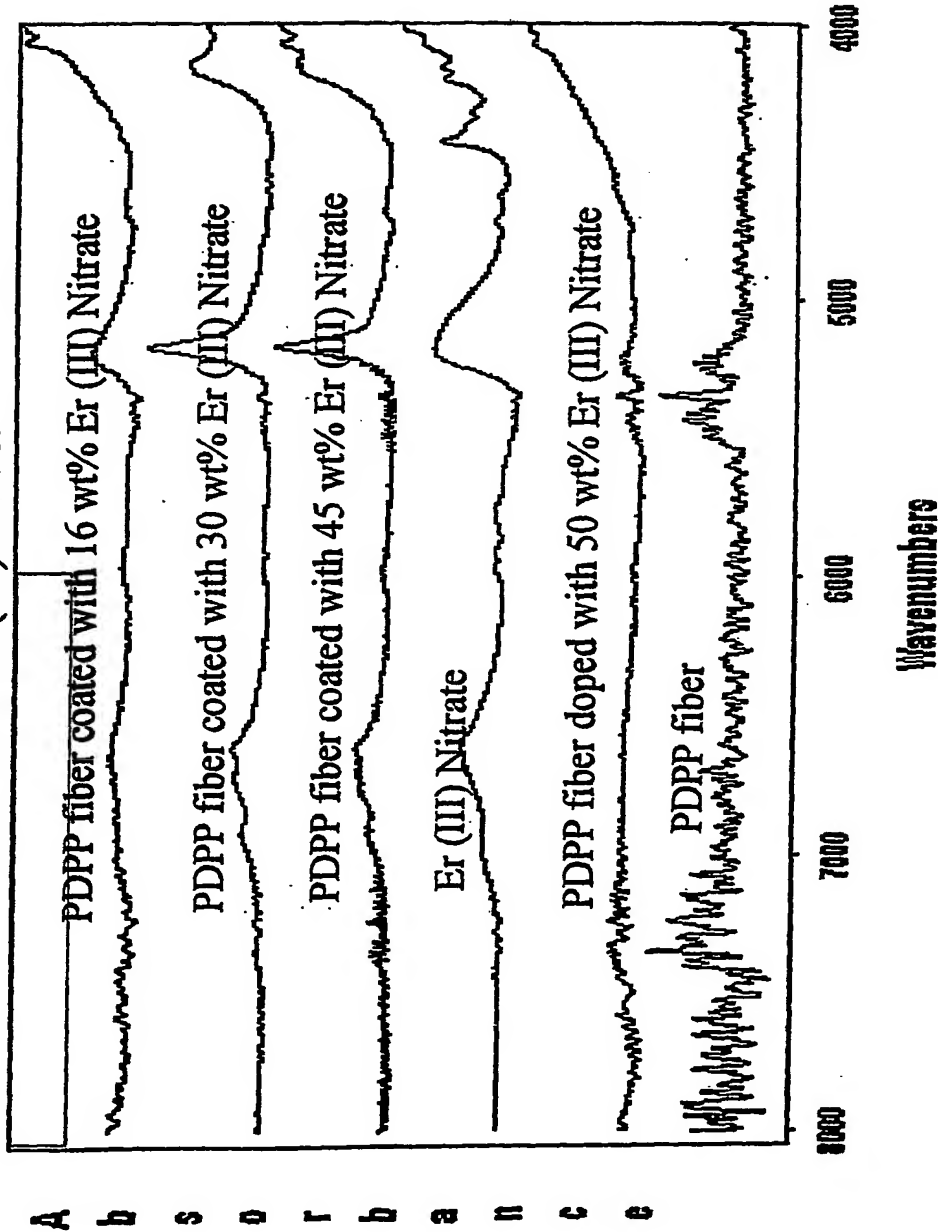


FIG 2

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FIG 3



Scanning Electron Microscope Image of PDP Electrospun Nanofibers Coated with  $\text{ErNO}_3$

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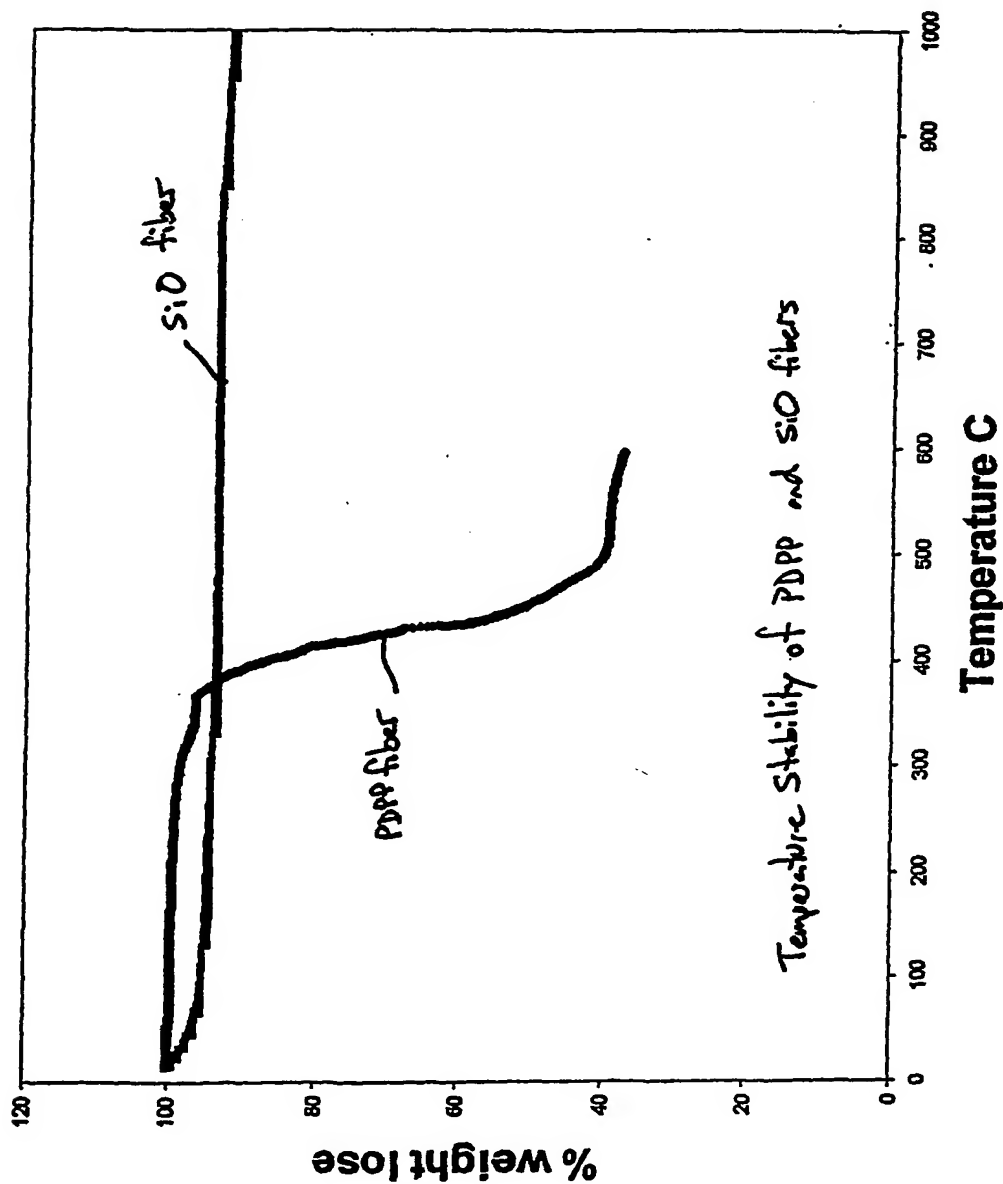
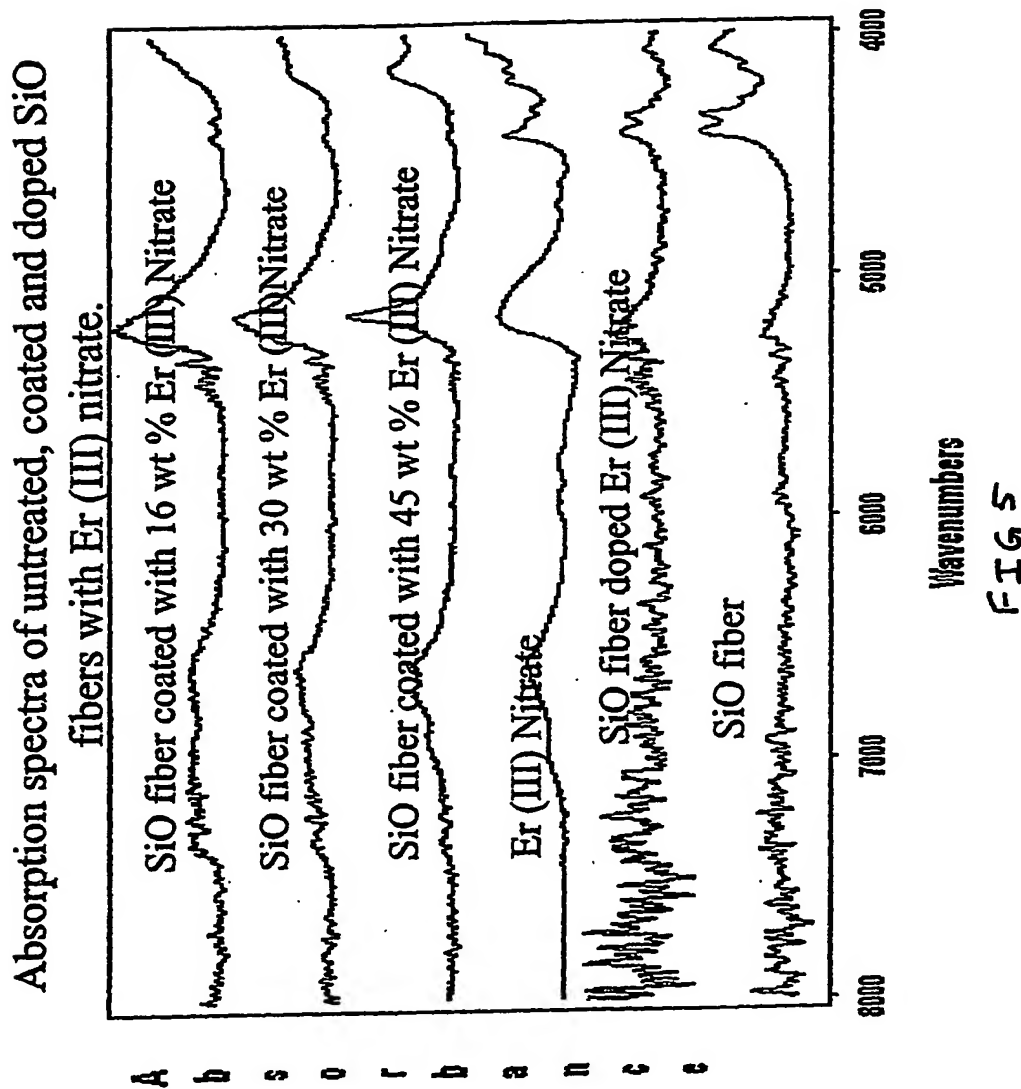


FIG 4

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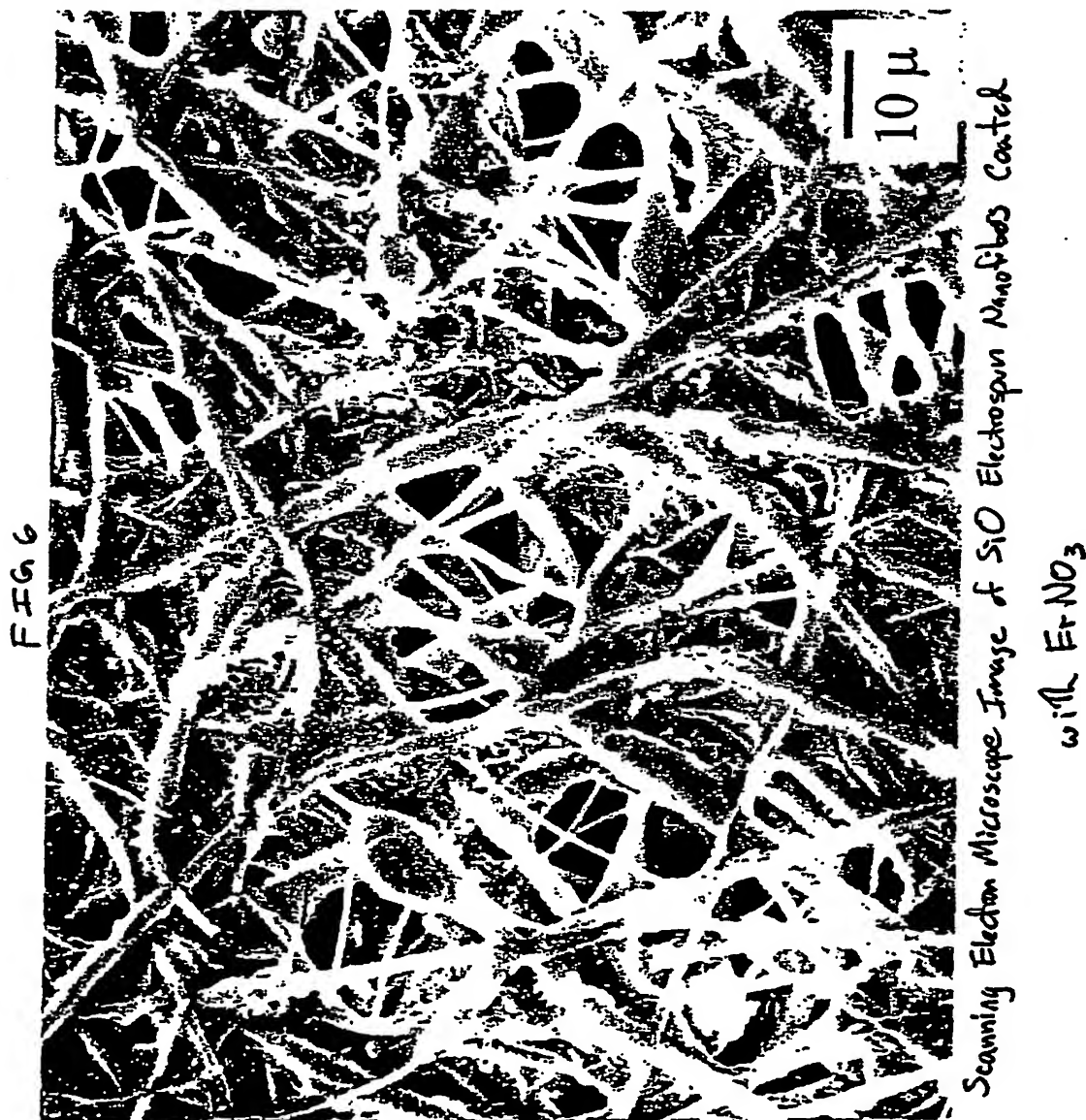
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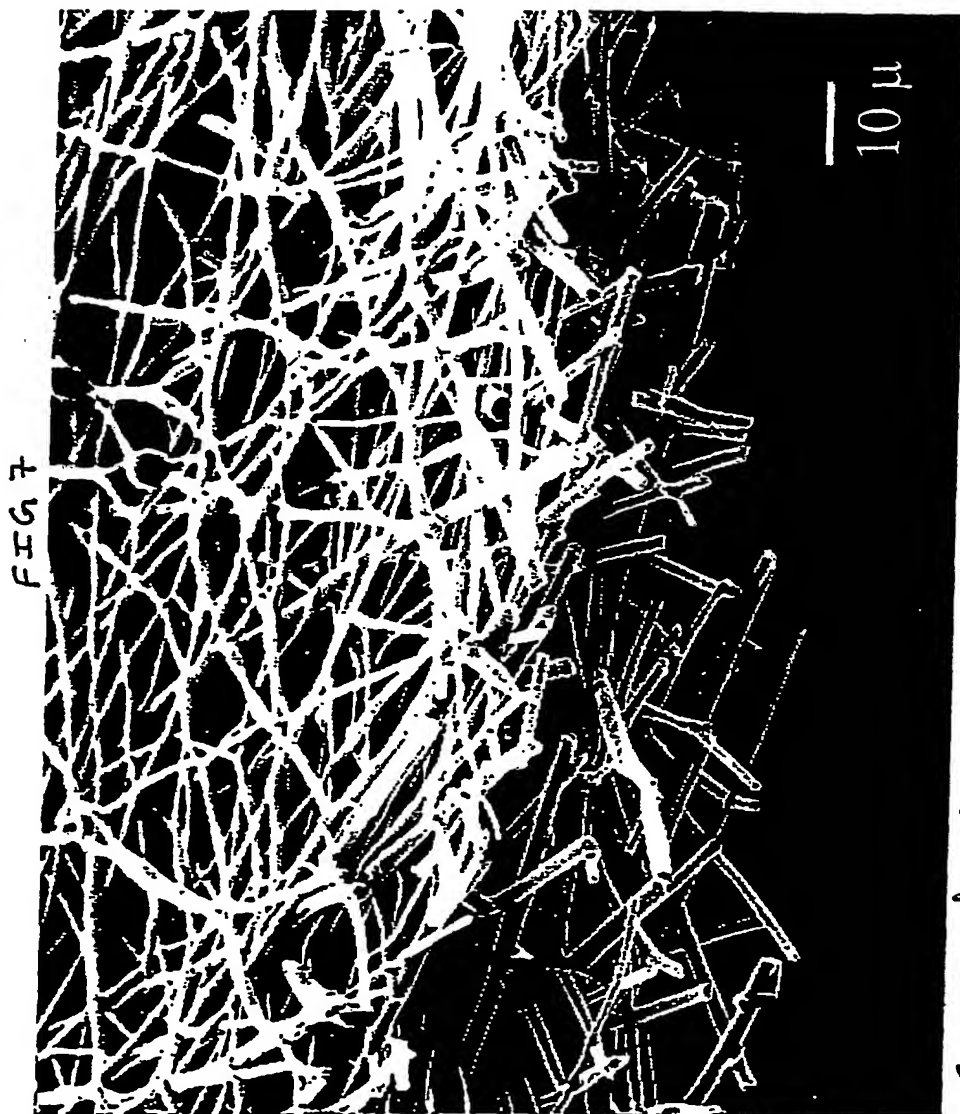
NANOFIBERS WITH MODIFIED  
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Scanning Electron Microscope Image of SiO<sub>2</sub> Electrospun NanoFibers  
After Annealing to 800 °C

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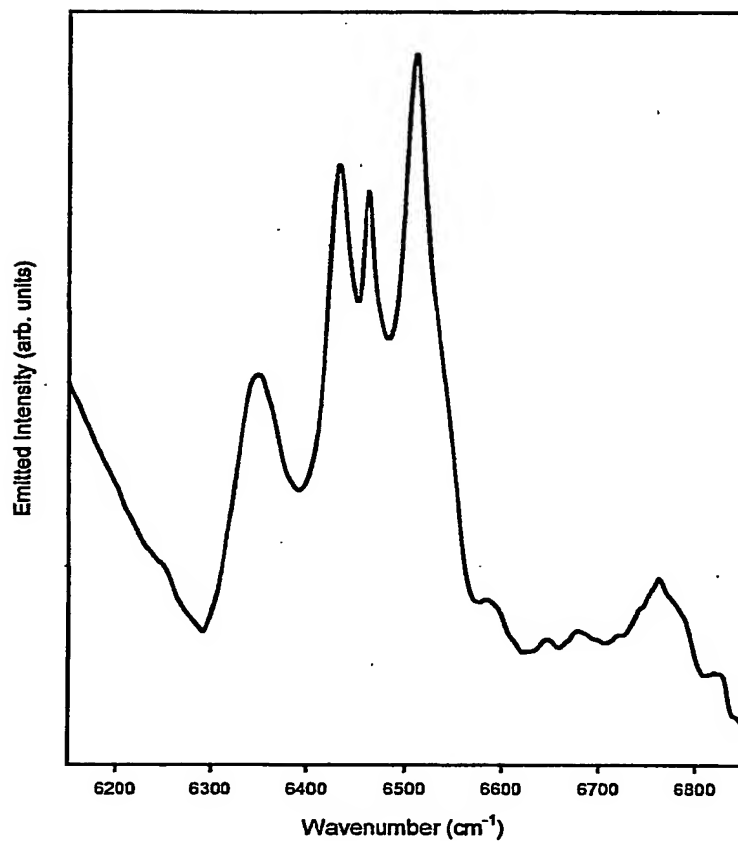


FIG. 8